CC BY SA

Data on the web
some inconvenient truths

1

Most data on the web is

not Linked Data

(we don't care)

"The system is failing."

*"We have to grit our teeth and hang on to the fence and not take it for granted that the web will lead us to wonderful things."**

Tim Berners-Lee

* https://www.theguardian.com/technology/2017/nov/15/tim-berners-lee-world-wide-web-net-neutrality

1
Most data on the web is
not Linked Data
Relatively speaking, the LD-berg is melting

2

I am getting frustrated by the number of people calling any HTTP-based interface a REST API. Today's example is the SocialSite REST API. That is RPC. It screams RPC. There is so much coupling on display that it should be given an X rating.*

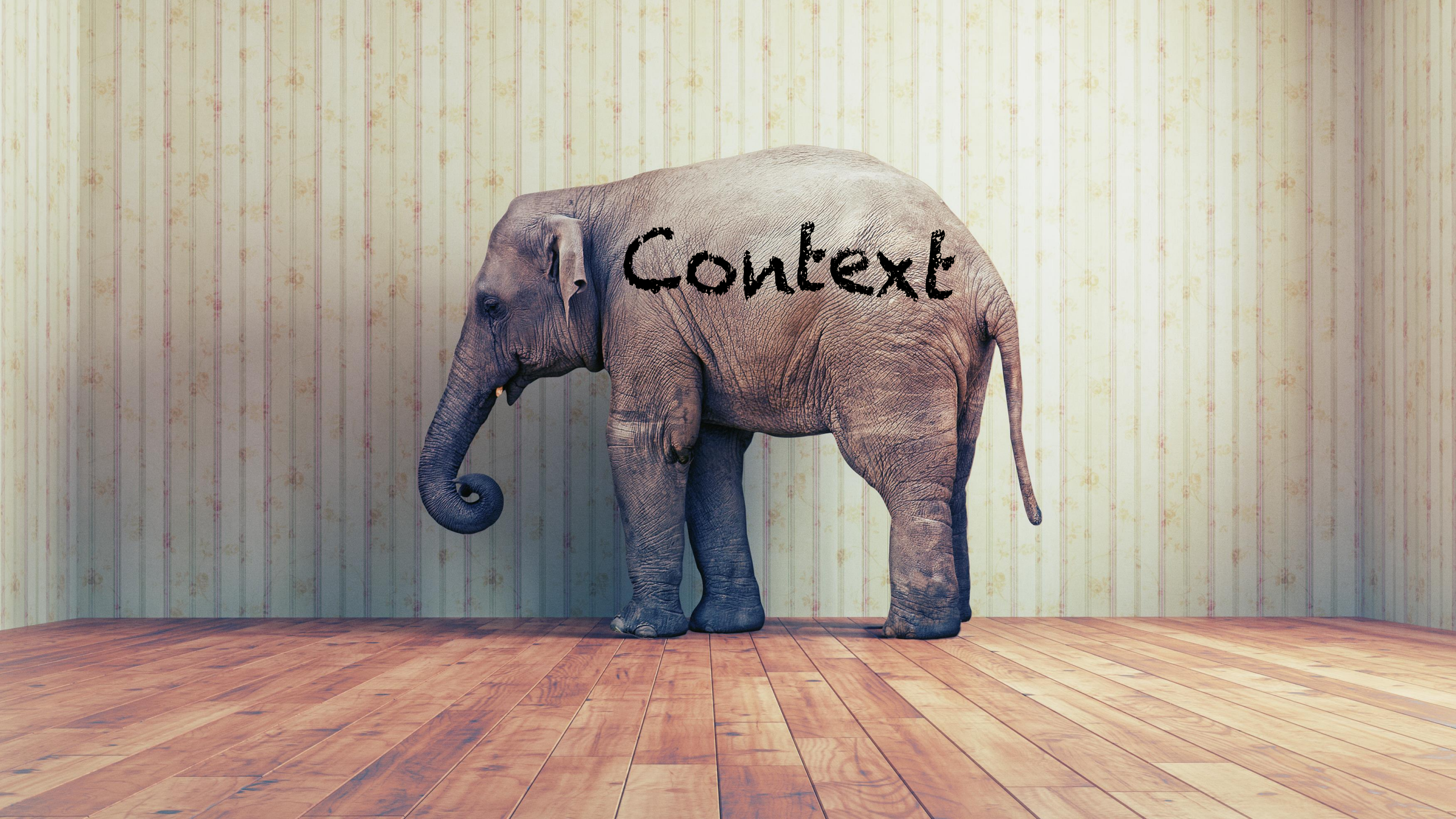
Roy Fielding

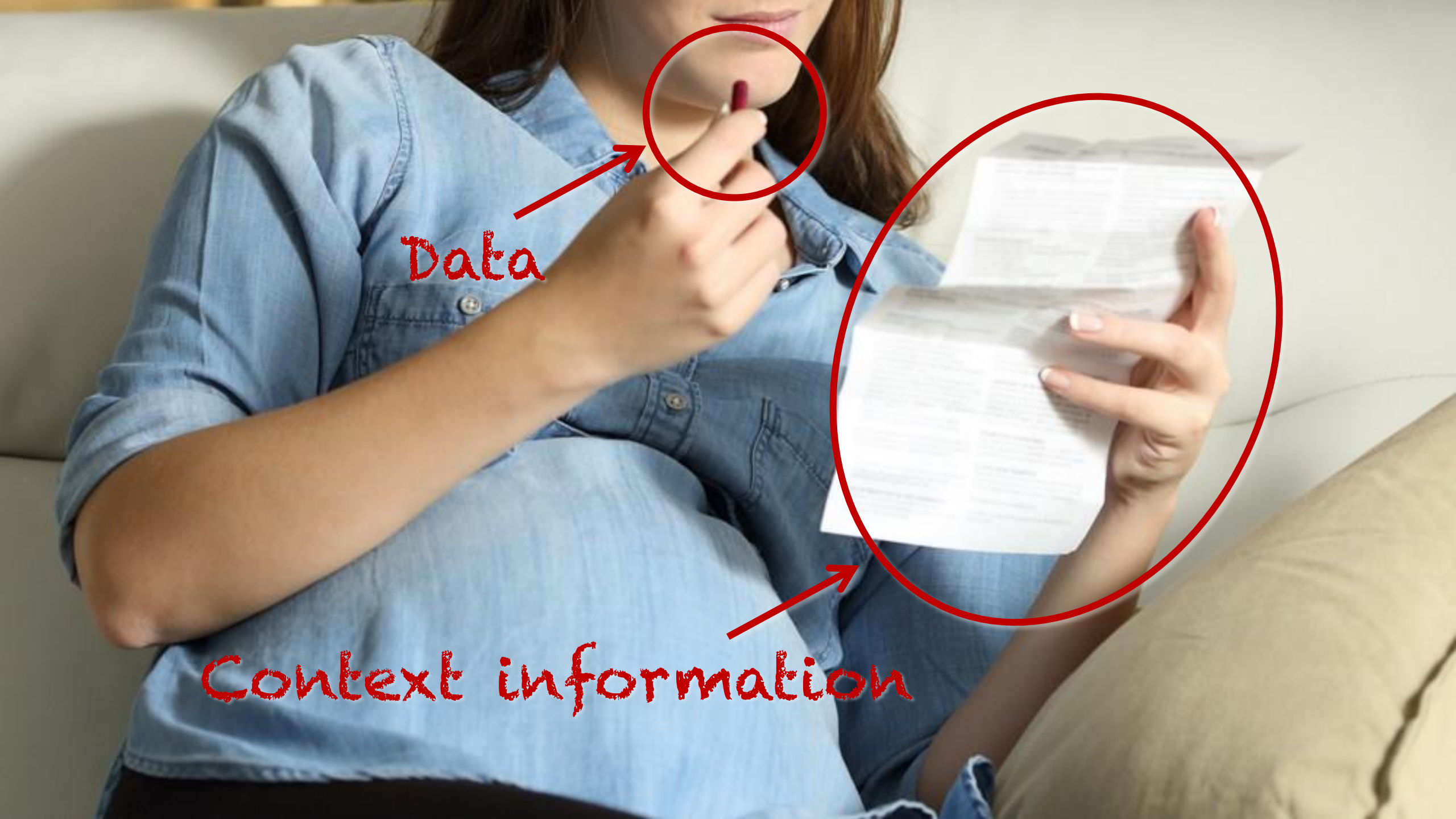
Most web API's are

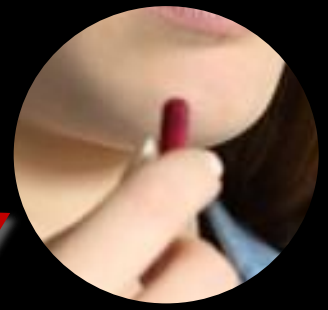
not RESTful

(current API's are like SOAP webservices - with JSON)

* http://roy.gbiv.com/untangled/2008/rest-apis-must-be-hypertext-driven


Context


Data
Context information



Data

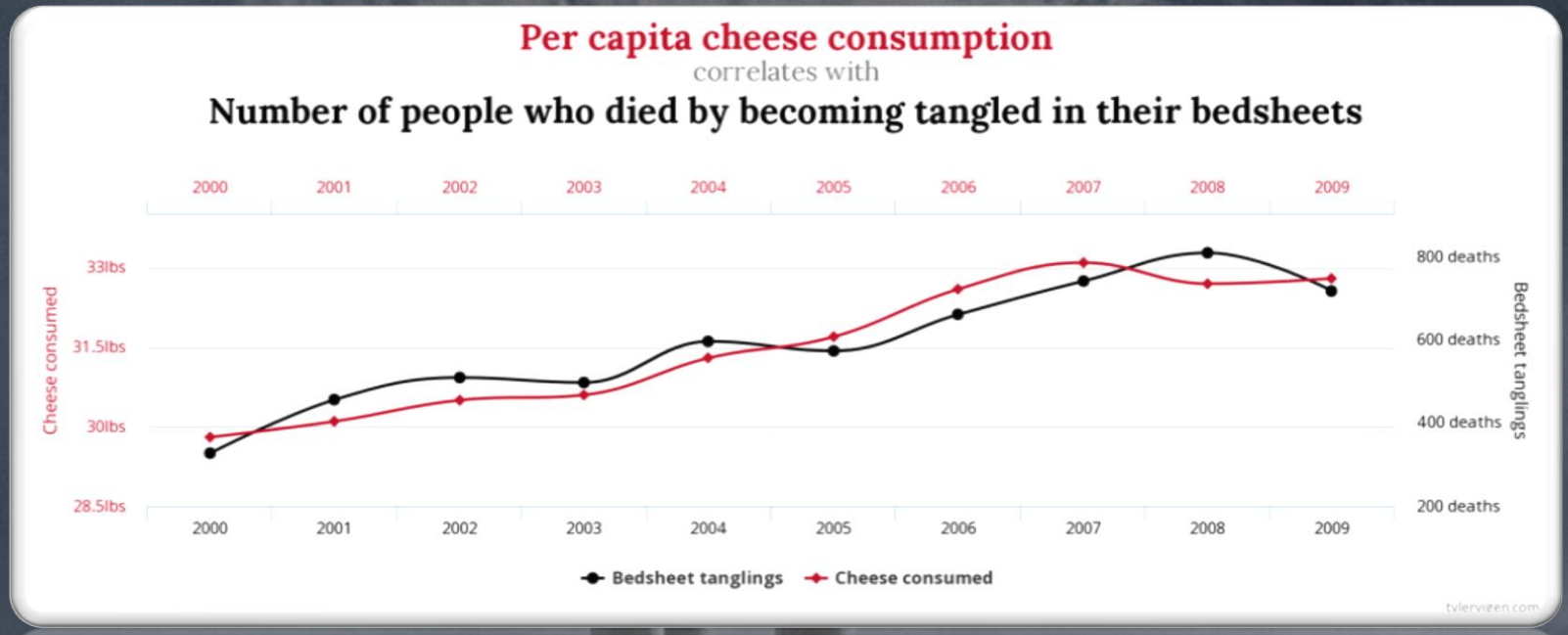
Would you use it without context?

```
{
  "@context": "https://taxoffice.com/def#",
  "@type": "Person",
  "income": 25000
}
```

3
Most data on the web is
fake data
Fake data = data without context

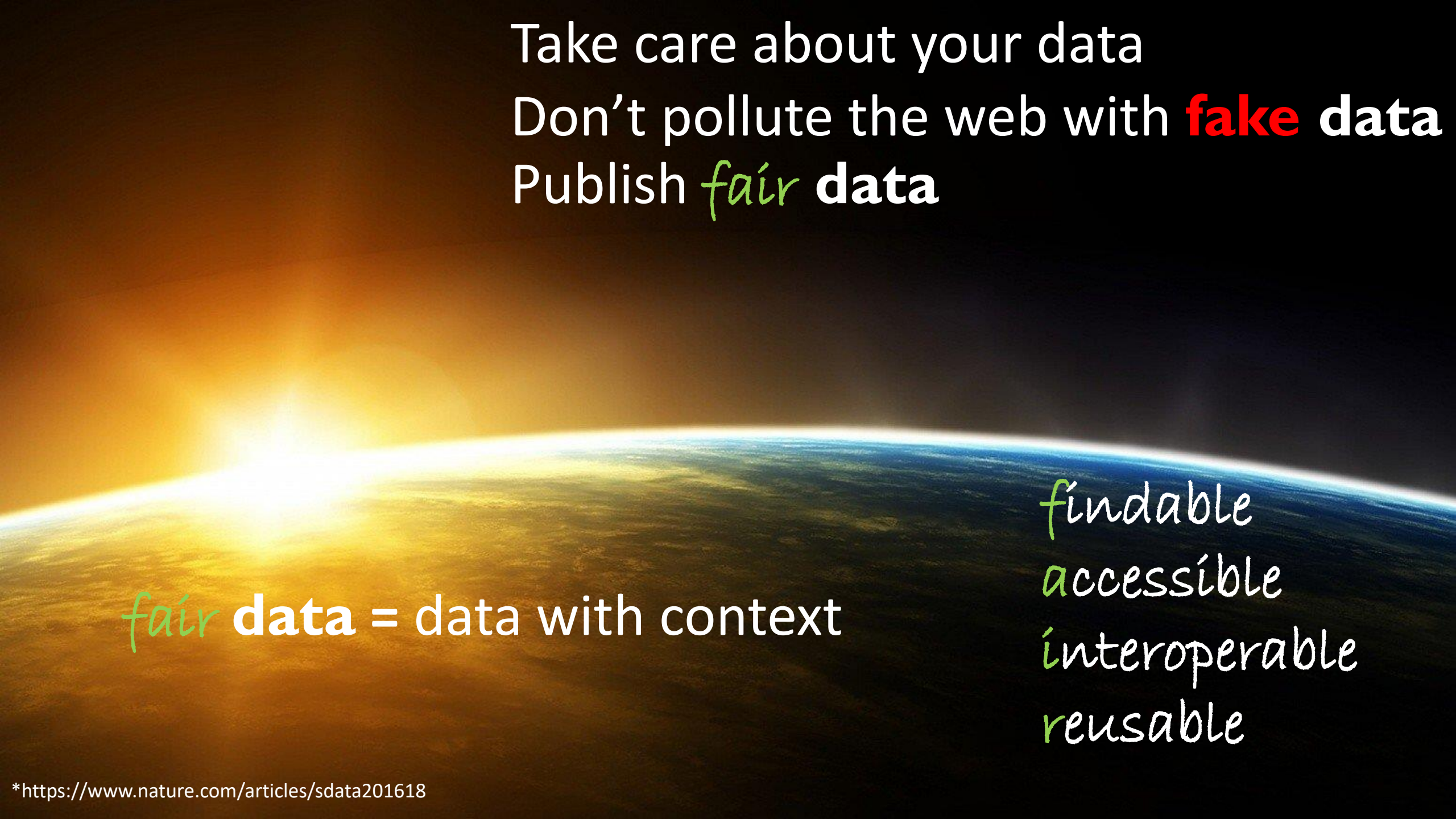
3 fake data

"Eating cheese gets you killed in bed"*



Data sources: U.S. Department of Agriculture and Centers for Disease Control & Prevention

*http://tylervigen.com/spurious-correlations


Take care about your data
Don’t pollute the web with fake data
Publish fair data
fair data = data with context
findable
accessible
interoperable
reusable
*https://www.nature.com/articles/sdata201618

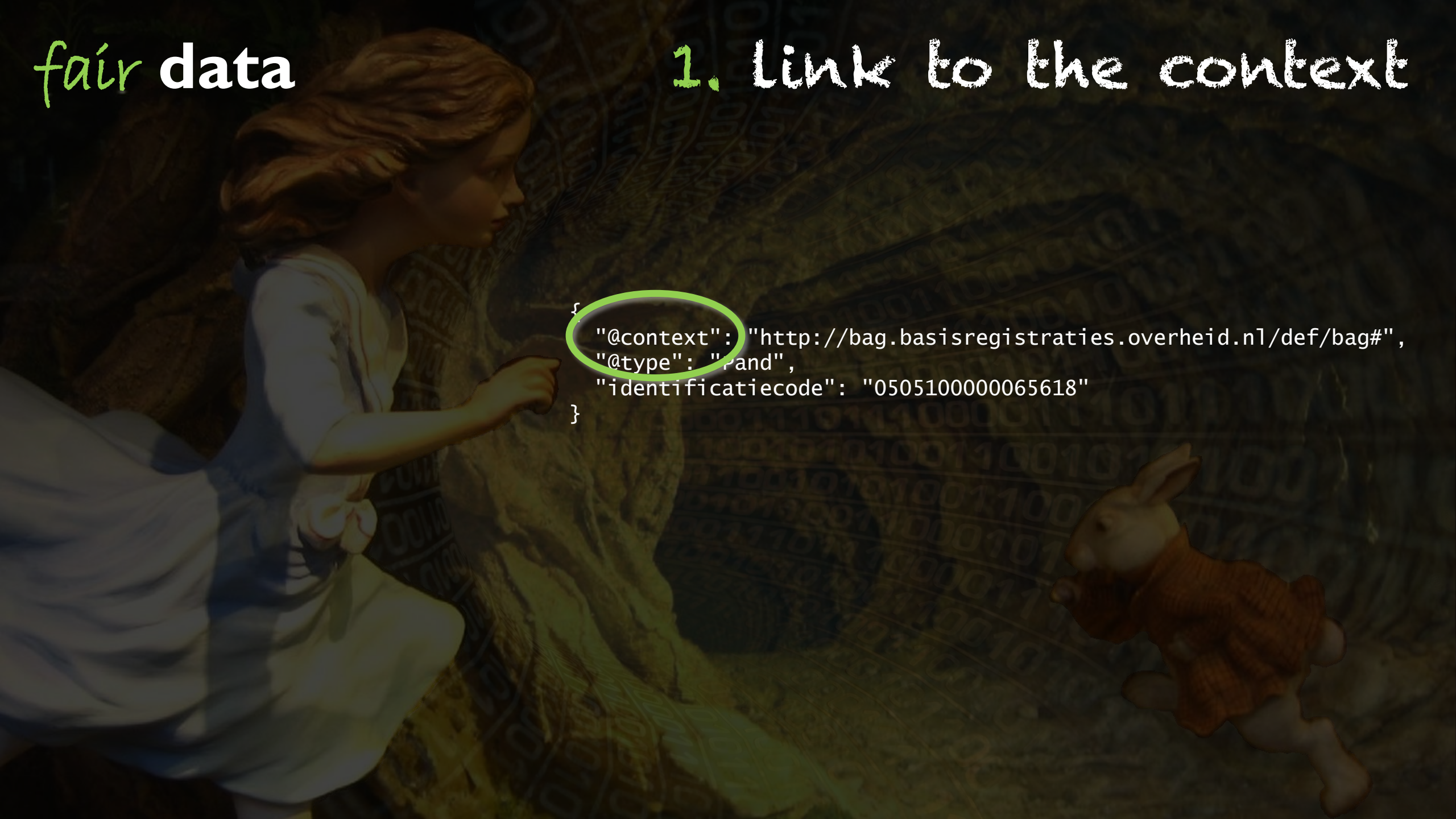
This is your last chance. After this there is no turning back.
You take the blue pill: the story ends. You wake up in your bed and believe whatever you want to believe.
You take the red pill: you stay in wonderland. And I show you how deep the rabbithole goes.

fair **data**

fake **data**

fair data

1. link to the context



```
{
  "@context": "http://bag.basisregistraties.overheid.nl/def/bag#",
  "@type": "Pand",
  "identificatiecode": "0505100000065618"
}
```

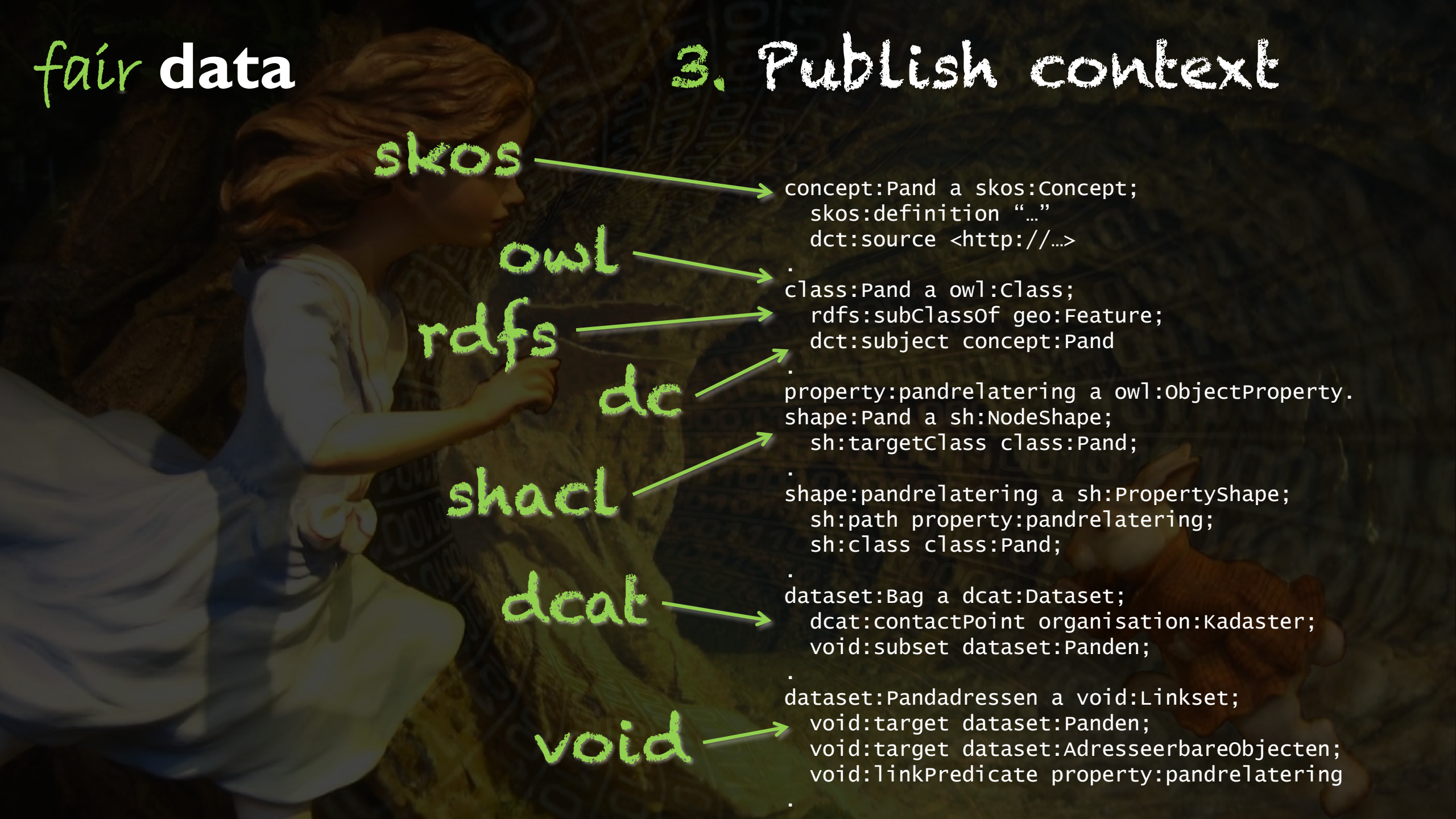
fair data

2. Use URI-templates

```
type Pand @uri(template: "http://bag.basisregistraties.overheid.nl/bag/id/pand/{$identificatiecode}" {
  identificatiecode: ID!
}
```

fair data

3. Publish context



about me

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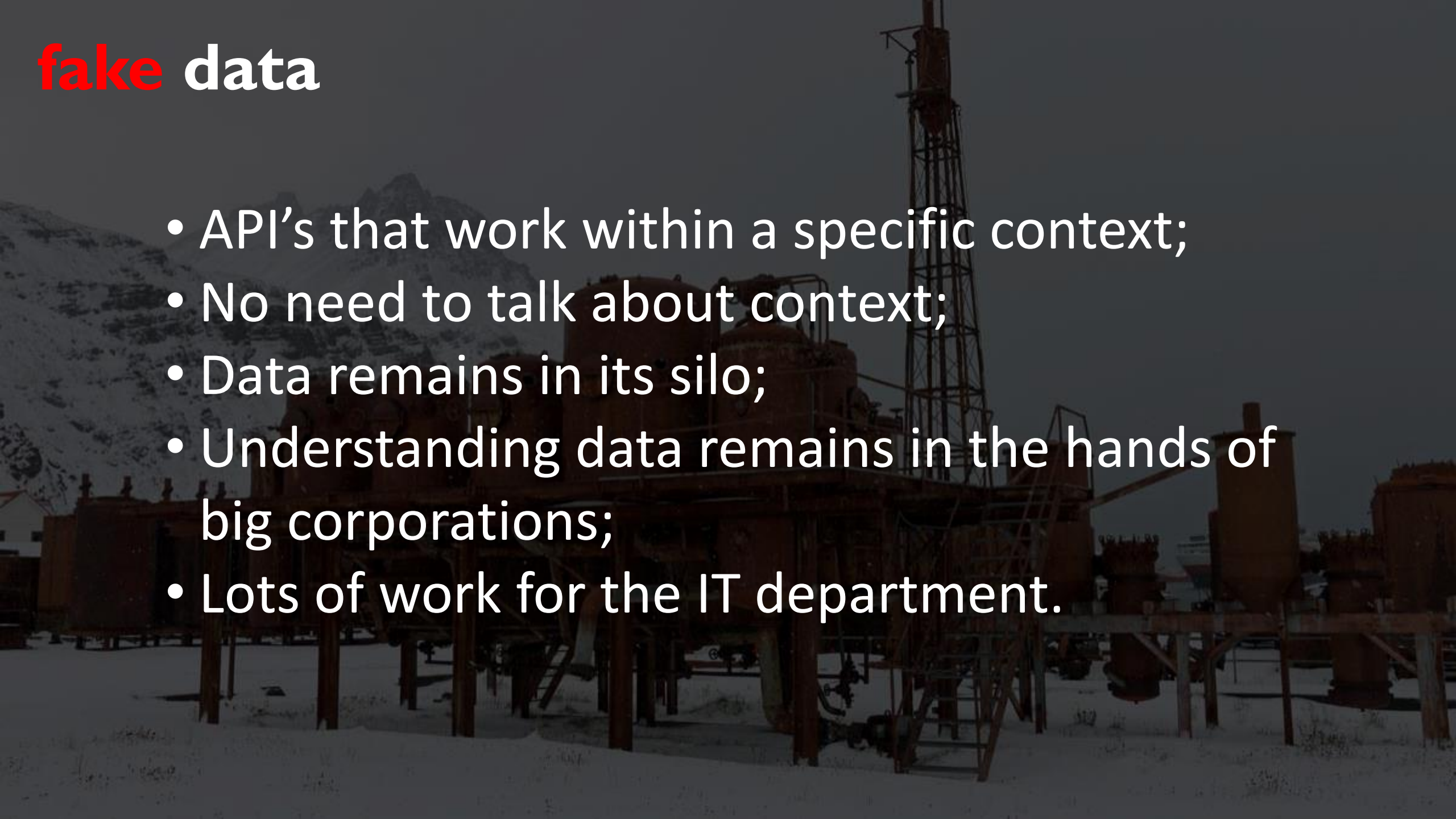
about context

BP4mc²

http://bp4mc2.org

fake data



- API’s that work within a specific context;
- No need to talk about context;
- Data remains in its silo;
- Understanding data remains in the hands of big corporations;
- Lots of work for the IT department.